NASAL SWABS

The NASAL SWABS are part of a test kit for laboratories and are used to collect samples for COVID-19 tests. The swabs are typically used for testing for influenza and other respiratory infections.

Covid-19 is a global humanitarian challenge. It is spreading, causing many local emergency situations in hospitals. Rapid Shape provides information for its 3d printing community to #standthogether #fightcorona #wereinthistogether

How is a NASAL SWAB used?

NASAL SWABS are sticks with a bristled end that are inserted into the nose at the back of the nasal cavity and turned over to collect material that sticks to or wicks up the bristles. After sampling, the swab must be properly packed in a special vial.

Dimensions of the printed NASAL SWABS:

Full Length: 108.0 mm

Head Length: 20.0 mm

Head Diameter: 4.2 mm

Note:

Before producing the Test Swabs, please contact a clinic / certified laboratory to align further steps such as local needs & requirements, local certification and claims.

If you have a specific demand to produce >10,000 units per week, please contact Rapid Shape for a common path and extended support via sales@rapidshape.de.

The production of the NASAL SWAB with a Rapid Shape 3D printer -without specific prior alignment as indicated above- is not certified according to legal standards. It is not a medical product. It may only be used in full legal responsibility of the responsible laboratory/physician. Rapid Shape or Rapid Shape certified material partners assume no liability for the NASAL SWABS or this document. This document is ex gratia.

MATERIAL REQUIRED:

3D PRINTER:

D20 series
☐ Rapid Shape D20+, Dental Wings D20+, DMG 3Demax, Shera SHERAprint 20+, Straumann P20+
☐ Rapid Shape D20 II, Dental Wings D20, Shera SHERAprint 20, Straumann P20

D30 series
☐ Rapid Shape D30+, Dental Wings D30+, Shera SHERAprint 30+, Straumann P30+
☐ Rapid Shape D30 II, Dental Wings D30, Shera SHERAprint 30, Straumann P30

D40 series
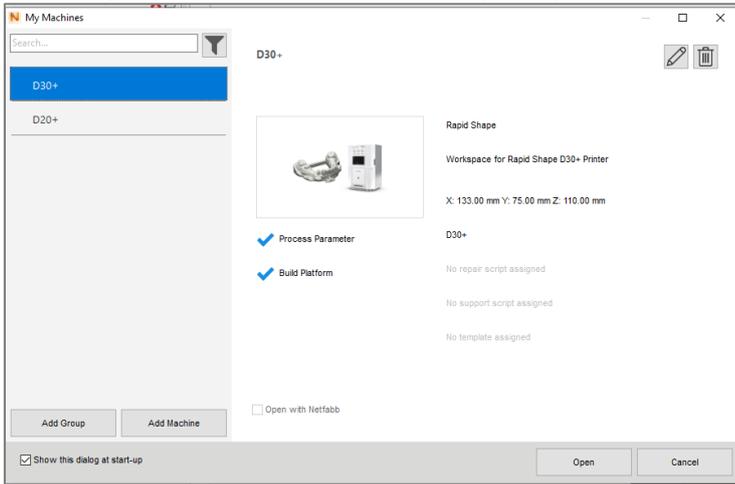☐ Rapid Shape D40 II, Dental Wings D40, Shera SHERAprint 40, Straumann P40

CAM SOFTWARE:
☐ Autodesk Netfabb

3D PRINTING MATERIAL:
☐ Rapid Shape RS Surgical Guide
☐ Straumann P pro Guide
☐ DeltaMed 3Delta Guide S

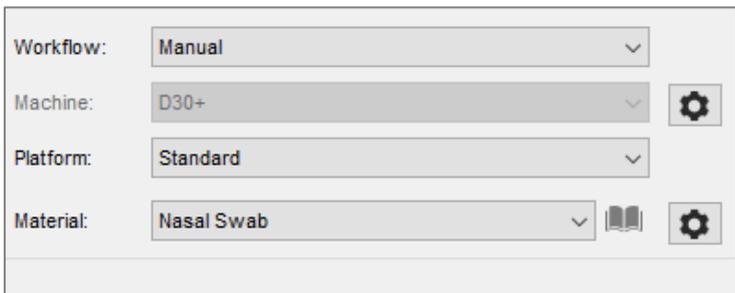# How to prepare the NASAL SWABS print job:

Step 1: Please **download** the suitable and ready-made fabbproject files for your printer and open it in Autodesk Netfabb.
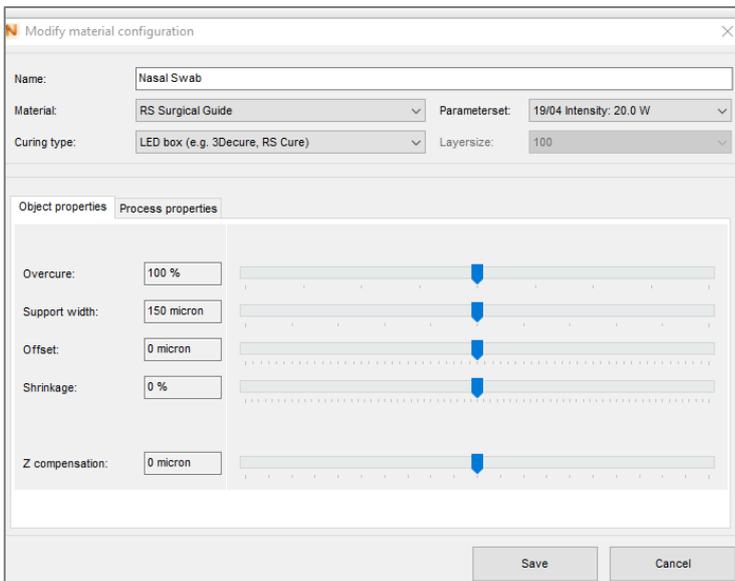
Step 2: Please **load** the job file and open target machine.

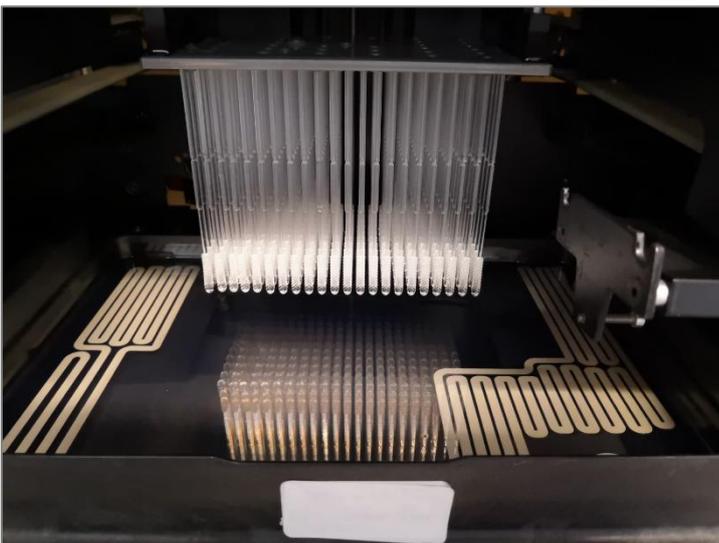Step 3: Drag & drop target file into **Machine Environment** (e.g. D30+).
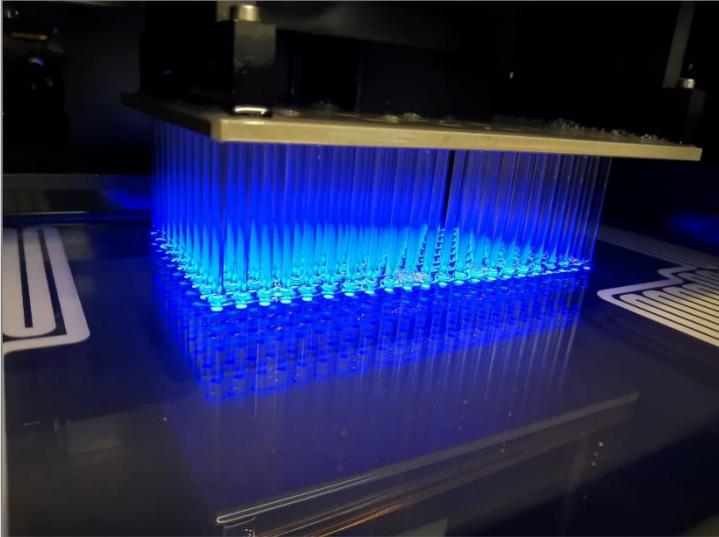
Step 4: Open the **material library**.

Step 5: Please select the **chosen material** in the material library.

Select your available curing type.

Step 6: Create the job file and start printing.

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5

POST-PROCESSING

How to wash the NASAL SWABS:

Step 1: After finishing the print job, please remove the NASAL SWABS carefully from the build platform.

Step 2: Clean the NASAL SWABS in the RS wash or an Ultrasonic Device. Cleaning program/time depends on the material. Please follow the resin manufacturer's instructions for use.

Step 3: Clean the NASAL SWABS with **compressed air** (especially in the corrugated parts).

How to post cure the NASAL SWABS:

Step 1: After cleaning, you have to **post cure** the NASAL SWABS. Please follow the resin manufacturer's instructions for usage. For example, in the RS cure or Dentamid PCU LED N2:

Step 2: **Check** the NASAL SWABS again for residual resin and defects (especially in the critical thin parts).

Step 3: **Sterilize** the NASAL SWABS and **pack** them in a sealable bag or box for shipping. Make sure that the NASAL SWABS arrive safely.

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6

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TRANSPORT

Please add a notice to the lab in charge as follows:

The NASAL SWABS must be steam sterilized before use in the lab/hospital/clinic. After finishing your print job, please contact your partner lab and ensure medically correct transport.

DESCRIPTION	NASAL SWAB
ATTENTION	No medical device! Not original!
MANUFACTURING METHOD	3D printed with Class 1a material with intended use for Surgical Guides in mouth dental use. Material is certified for steam sterilization.
USE	May be used only in full legal responsibility of the lab in charge, based on an emergency situation such as a local supply shortage.
LIABILITY	No liability assumed from the producer, no liability assumed from the equipment in use manufacturer, no liability assumed from the material manufacturer